

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY VALLEY REGIONAL OFFICE

Douglas W. Domenech Secretary of Natural Resources 4411 Early Road, P.O. Box 3000, Harrisonburg, Virginia 22801 (540) 574-7800 Fax (540) 574-7878 www.deq.virginia.gov

David K. Paylor Director

Amy Thatcher Owens Regional Director

December 16, 2011

Mr. Randall Deane, Facility Manager Avionics Specialties, Inc. 3367 Earlysville Road Earlysville, Virginia 22936

Re:

Avionics Specialties, Inc., VPDES Permit No. VA0028398, Albemarle County

Dear Mr. Deane:

Your application has been reviewed and appears to be complete. The next steps involve assembling the information necessary to develop the permit limitations and then drafting the permit. Once the draft permit is prepared and the appropriate reviews are performed, I will transmit the draft permit and supporting documentation to you for review. I expect to have this draft permit package to you within the next two months.

The Department of Environmental Quality strives to complete the permitting process in a timely manner. If you have any questions about our procedures or the status of your draft permit, please do not hesitate to call me at (540)574-7805.

Sincerely,

Bev Carver

Environmental Engineer Senior

her Conver

cc:

Cody Hoehna (via email) Permit Processing File



November 28, 2011

Ms. Beverly Carver

DEQ-VRO

4411 Early Road P.O. Box 3000

Harrisonburg, VA 22801

Subject:

Avionics Specialties, Inc. VPDES Permit No VA0028398, Permit

Renewal Application

Dear Ms. Carver,

Environmental Systems Service, Ltd. (ESS) has submitted this VPDES permit renewal application for the Avionics Specialties, Inc. wastewater facility located at 3367 Earlysville Road, Earlysville, VA. Avionics Specialties, Inc. is a wholly owned subsidiary company of Aerosonic Corporation of Clearwater, Florida.

Please note that this facility closed down its operation in 2007, and has remained closed since. Mr. Randall Deane with Avionics Specialties, Inc. has been the only employee that has remained at the site since 2009 in order to maintain the facility, and care for the grounds, structures, and assist in relocating facility equipment and disposing of the equipment until the property is sold. The wastewater plant is still fully operational, however there has been little to no flow entering the wastewater plant other than rain water, thus there has been no discharge in several years (since February 2010). Due to the shutdown of the facility there is no current discharge data available and thus no change since the 2006 VPDES permit renewal.

This application information is based on the 2007 permit reissuance application information which was for sanitary wastewater from an aircraft controls manufacturing facility. If the facility is purchased, a change of ownership form will be submitted to DEQ and a determination will be made as to whether a permit modification is necessary based on the activities proposed by the new owner. Should you have any questions or concerns please feel free to contact Mr. Randall Deane at Avionics Specialties, Inc. at 434-996-6250.

Best regards,

Cody J. Hoehna, Operations Manager

Environmental Services Division

Cc: Mr. Tom Cason, Avionics Specialties, Inc.

Mr. Randall Deane, Avionics Specialties, Inc.

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in <u>Daily Progress</u> in accordance with 9 VAC 25-31-290.C.2.

Agent/Department to be billed:	Avionics Specialties, Inc.
Owner:	
Agent/Department Address:	3367 Earlysville Road
	Earlysville, Virginia 22936
Agent's Telephone No.:	(727)461-3000 Extension 170
Printed Name:	Mr. Thomas Cason, Executive Vice President& Chief Operating Officer
Authorizing Agent – Signature:	The W
Date:	12/6/11

VPDES Permit No. VA0028398 Avionics Specialties, Inc.

VPDES/VPA Permit Billing Information Form for Annual Maintenance Fee

Facility Name: Avionics Specialties, Inc.

Permit Number: VA0028398

Owner Name: Avionics Specialties, Inc.

Owner Address: 3367 Earlysville Road

Earlysville, Virginia 22936

Billing Contact Name: Randall Deane

Title: Facility Maintenance Manager

Phone Number: (434)996-6250

E-Mail Address: rdeane@aerosonic.com

VPDES Permit Application Addendum 1. Entity to whom the permit is to be issued: Avionics Specialties, Inc. Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner. 2. Is this facility located within city or town boundaries? Include a topographic map identifying the location of the facility, the property boundaries, and the discharge point. 3. What is the tax map parcel number for the land where this facility is located? 03200-00-00-06600 4. For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? 5. ALL FACILITIES: What is the design average flow of this facility? MGD Industrial facilities: What is the max. 30-day avg. production level (include units)? N/A In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? If "Yes", please specify the other flow tiers (in MGD) or production levels: N/A Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years? 6. Nature of operations generating wastewater: Sanitary wastewater from aircraft controls manufacturing facility 100 % of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: X 0 1-49 50 or more % of flow from non-domestic connections/sources 7. **Mode of discharge**: Continuous X Intermittent Seasonal Describe frequency and duration of intermittent or seasonal discharges: 0-2 times per day for 30 minutes per discharge. No discharge on weekends 8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point: Permanent stream, never dry X Intermittent stream, usually flowing, sometimes dry __ Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry _ Lake or pond at or below the discharge point Other: 9. Approval Date(s): Sludge/Solids Management Plan to be approved with permit O & M Manual 09/04/2007 reissuance Have there been any changes in your operations or procedures since the above approval dates? No

10. Date that a copy of the application was sent to the Virginia Department of Health? will be sent when submit

application to DEQ

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and d

		r facility's sewage sludge use or disposal practices. The information provided on this page will help you sections to fill out.
1.	All appl	licants must complete Section A (General Information).
2.	Will this	s facility generate sewage sludge? X Yes No
	Will this	s facility derive a material from sewage sludge?Yes _X_No
		nswered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material From Sewage Sludge).
3.	Will this	s facility apply sewage sludge to the land?Yes _XNo
	Will sev	wage sludge from this facility be applied to the land? _Yes _X_No
	If you ar	nswered No to both questions above, skip Section C.
	If you as	nswered Yes to either, answer the following three questions:
	a.	Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified the instructions? YesX_No
	b.	Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land? \underline{X} No
	c.	Will sewage sludge from this facility be sent to another facility for treatment or blending? \underline{X} Yes \underline{N}
	If you ar	nswered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you ar	nswered Yes to a, b or c, skip Section C.
	Do you	own or operate a surface disposal site?Yes _X_No
	If Yes, c	complete Section D (Surface Disposal).

All applicants must complete this section.

1.	Facil	ity Information.
	a.	Facility name: Avionics Specialties, Inc.
	b.	Contact person: Randall Deane
		Title: Facility Maintenance Manager
		Phone: (434) 996-6250
	C.	Mailing address:
		Street or P.O. Box: _3367 Earlysville Road
		City or Town: Earlysville State: Virginia Zip: 22936
	d.	Facility location: Street or Route #: 3367 Earlysville Road
		County: Albemarle
		City or Town: Earlysville State: Virginia Zip: 22936
	e.	Is this facility a Class I sludge management facility? Yes X No
	f.	Facility design flow rate: 0.005 mgd
	g.	Total population served: approx. 123 employees
	h.	Indicate the type of facility:
		Publicly owned treatment works (POTW)
		X Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
2.	Appl	icant Information. If the applicant is different from the above, provide the following:
	a.	Applicant name: Environmental Systems Service, Ltd.
	b.	Mailing address:
		Street or P.O. Box: 218 North Main Street
		City or Town: Culpeper State: Virginia Zip: 22701
	C.	Contact person: Cody Hoehna
		Title: Operations Manager
		Phone: (540) 825-6660
	d.	Is the applicant the owner or operator (or both) of this facility?
		ownerX_ operator
	e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
		X facility X applicant
3.	Perm	it Information.
J.	a.	Facility's VPDES permit number (if applicable):
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received
	o.	or applied for that regulate this facility's sewage sludge management practices:
		Permit Number: Type of Permit:
		VA0028398 VPDES
		7.1.00000000
4.	India	n Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this
		ty occur in Indian Country? Yes X No If yes, describe:

FACILITY NAME: Avionics Specialties, Inc.

VPDES PERMIT NUMBER: VA0028398

- 5., Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
 - Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

Phone: (434) 296-8600

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

VDH Permit SH-3-101

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. N/A

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				

9.	Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:
	 X Section A (General Information) X Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)

Section D (Surface Disposal)

Section C (Land Application of Bulk Sewage Sludge)

FACILITY NAME: Avionics Specialties, Inc.

VPDES PERMIT NUMBER: VA0028398

I, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Mr. Thomas Cason, Executive Vice President and Chief Operating Officer

Signature Date Signed

Telephone number 727)461-3000, Extension 170

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

FACILITY NAME: Avionics Specialties, Inc. VPDES PERMIT NUMBER: VA0028398

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.		unt Generated On Site. dry metric tons per 365-day period generated at your facility: 0.311 dry metric tons
2.	dispo	unt Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or sal, provide the following information for each facility from which sewage sludge is received. If you receive ge sludge from more than one facility, attach additional pages as necessary. N/A Facility name: Contact Person: Title: Phone ()
	c.	Mailing address: Street or P.O. Box: City or Town: State: Zip:
	d.	Facility Address: (not P.O. Box)
	e. f.	Total dry metric tons per 365-day period received from this facility: dry metric tons Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
3.	Treat	ment Provided at Your Facility.
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class A Class B X Neither or unknown
	ь.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: Anaerobic digestion in Imhoff Tank
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) X_ None or unknown
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above: N/A
i.	One of	ration of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and of Vector Attraction Reduction Options 1-8 (EQ Sludge). N/A rage sludge from your facility does not meet all of these criteria, skip Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: dry metric tons
	Ь.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? _Yes _No

5.		or Give-Away in a Bag or Other Container for Application to the Land. oldete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this
		on if sewage sludge is covered in Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: dry metric tons
	b.	Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.
6.	Shipr	nent Off Site for Treatment or Blending.
	does n	olete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question of apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is d in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)
	a.	Receiving facility name: Rivanna Water and Sewer Authority
	b.	Facility contact: Cary Lang
	Ο.	Title: Wastewater Operations Manager Phone: (434) _ 977-2970 ext. 112
	C.	Mailing address:
		Street or P.O. Box: 695 Moores Creek Lane
		City or Town: Charlottesville State: Virginia Zip: 22902
		d. Total dry metric tons per 365-day period of sewage sludge provided to receiving facility:0.311
		dry metric tons
	e.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal
		practices:
		Permit Number: Type of Permit: VA0025518 VPDES
	f.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? X Yes No
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? Class AClass BX Neither or unknown
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge: <u>Digestion</u>
	g.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? X Yes No
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility? Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration)
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5)
		Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)
		X None unknown
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge: <u>Digestion</u>
	h.	Does the receiving facility provide any additional treatment or blending not identified in f or g above?
		X Yes No
		If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above. Blending of other sludge generated at WWTP
	i.	If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.

Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-

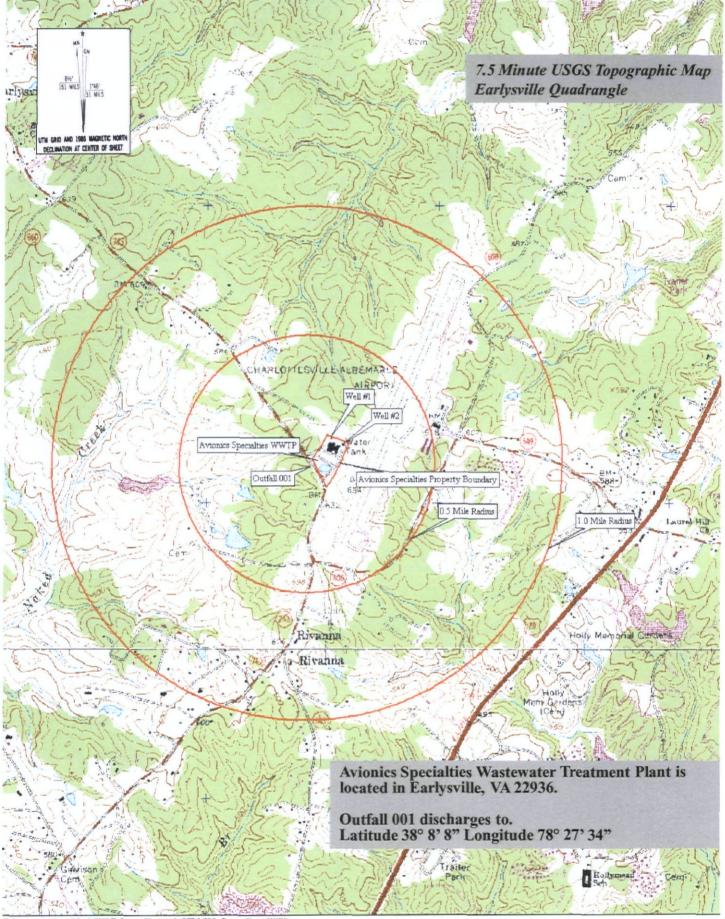
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	t	away for application to the land?Yes X_No
		If yes, provide a copy of all labels or notices that accompany the product being sold or given away.
	k.	Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally
		used for such purposes? X Yes No. If no, provide description and specification on the vehicle used to
		transport the sewage sludge to the receiving facility.
		Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the
		week and the times of the day sewage sludge will be transported. Sludge is removed annually and takes
		place Monday – Friday during normal business hours. The travel route is attached.
		place Monday 111day daring normal outsitess hours. The daver route is attached.
7.		Application of Bulk Sewage Sludge. N/A
		plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6;
	compl	ete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry
		metric tons
	b.	Do you identify all land application sites in Section C of this application?YesNo
		If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in
		accordance with the instructions).
	C.	Are any land application sites located in States other than Virginia?YesNo
		If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the
		States where the land application sites are located. Provide a copy of the notification.
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to
		comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples
		may be obtained in Appendix IV).
		may be obtained in Appendix 177).
8.	Surfa	ce Disposal. N/A
	(Comp	olete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal
		sites: dry metric tons
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?
		YesNo
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send
		sewage sludge to more than one surface disposal site, attach additional pages as necessary.
	c.	Site name or number:
	d.	Contact person:
		Title:
		Phone: ()
		Contact is:Site OwnerSite operator
	0	Mailing address.
	e.	Street or P.O. Box:
		City or Town: State: Zip:
		f. Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface
		disposal site: dry metric tons
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of
		all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface
		disposal site:
		Permit Number: Type of Permit:
0	Torring	nuntion N/A
9.		eration. N/A
		plete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge
		incinerator: dry metric tons
	b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
		YesNo
		If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send
		sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
	C	Incinerator name or number:

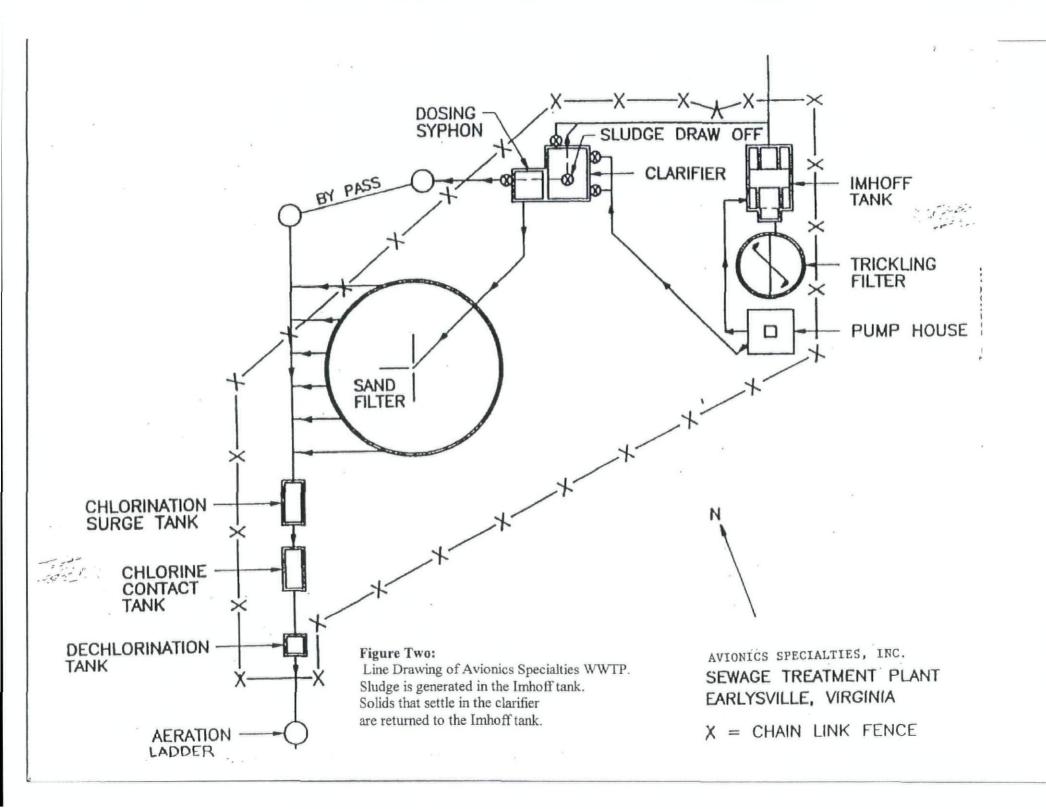
FACILITY NAME: Avionics Specialties, Inc.

VPDES PERMIT NUMBER: VA0028398

FACI	LITY N.	AME: Avionics Specialties, Inc. VPDES PERMIT NUMBER: VA0028398
7	d.,	Contact person:
		Title:
		Phone: ()
		Contact is:Incinerator OwnerIncinerator Operator
	e.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip: Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
		firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
10.		sal in a Municipal Solid Waste Landfill. N/A
		lete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information
		n municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one
		pal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name:
	b.	Contact person:
		Title:
		Phone: ()
		Contact is:Landfill OwnerLandfill Operator
	C.	Mailing address.
		Street or P.O. Box:
	- 4	City or Town: State: Zip:
	d.	Landfill location.
		Street or Route #:
		County:
		City or Town: State: Zip:
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
		dry metric tons f. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the
		The state of the s
		operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
		Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9
	g.	VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
	L	YesNo Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid
	h.	Waste Management Regulation, 9 VAC 20-80-10 et seq.?YesNo
	i.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
	1.	be watertight and covered? Yes No
		Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the
		week and time of the day sewage sludge will be transported.
		man and and and an independent of the state



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November 28, 2011

Rivanna Water and Sewer Authority Attn: Norman Wescoat Manager, Wastewater Operations P.O. Box 18 Charlottesville, VA 22902

Subject:

Notice of Necessary for Domestic Sewage Sludge from Avionics

Specialties WWTP VPDES Permit No. VA0028398

Dear Mr. Wescoat:

In order to be in compliance with the VPDES Permit Regulation (9VAC 25-31-530 G), I am required to notify you that in treating and disposing of the sewage sludge generated at the Avionics Specialties WWTP, you must comply with the VPDES Permit Regulation Part VI, Subpart B – Land Application. Should you have any questions on this matter, please contact the Valley Regional Office (VRO) of the Department of Environmental Quality (DEQ) in Harrisonburg, VA.

Please note that the referenced facility has been shutdown and out of operation since 2007, thus there has been no sewage sludge generated at the facility in many years.

Should you have any questions or concerns please feel free to contact Mr. Randall Deane at Avionics Specialties, Inc. at 434-996-6250.

Best regards,

Cody J. Hoehna, Operations Manager

Environmental Services Division

Cc: Ms. Beverly Carver, DEQ-VRO

Mr. Randall Deane, Avionics Specialties, Inc.

Form Approved 1/14/99 OMB Number 2040-0086

Avionics Specialties, Inc. - VA0028398

FORM

2A NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd.
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY, NAME AND PERMIT NUMBER:

Avionics Specialties, Inc. - VA0028398

BASIC APPLICATION INFORMATION

	PLICATION INFORMATION FOR ALL		
	ust complete questions A.1 through A.8 of	this Basic Application Information pa	cket.
. Facility Informati	on.		
Facility name	Avionics Specialties, Inc.		
Mailing Address	3367 Earlysville Road, Earlysville, VA	X 22936	
Contact person	Randall Deane		
Title	Facility Manager		
Telephone numbe	r (434) 996-6250		
Facility Address	3367 Earlysville Road, Earlysville, VA	22936	
(not P.O. Box)			
2. Applicant Inform	ation. If the applicant is different from the abo	ove, provide the following:	
Applicant name	Environmental Systems Service, Ltd		
Mailing Address	218 North Main Street, Culpeper, VA	22701	
Contact person	Cody Hoehna		
Title	Operations Manager		
Telephone numbe	r (540) 825-6660		
	he owner or operator (or both) of the treatn	nent works?	
Indicate whether o	orrespondence regarding this permit should b	e directed to the facility or the applicant	
facility	applicant	e directed to the lacinty of the approach.	
	mental Permits. Provide the permit number of	of any existing environmental permits that	at have been issued to the treatment
	te-issued permits).		
NPDES VA002			
Collection System	n Information. Provide information on munic known, provide information on the type of coll	ipalities and areas served by the facility.	Provide the name and population of
Name	Population Served	Type of Collection System	Ownership
Avionics Specia	Ities Approx. 123	separate	private
Total	opulation served Approx. 123		

	iics	Specialties, Inc VA0028398			01	MB Number 20	40-0000
A.5.	Inc	lian Country.					
	a.	Is the treatment works located in Indian Co	ountry?				
		Yes					
	b.	Does the treatment works discharge to a rethrough) Indian Country?	eceiving water that is either in	Indian Country or that is up	stream from (a	and eventually	flows
		Yes					
A.6.	ave	ow. Indicate the design flow rate of the treat erage daily flow rate and maximum daily flow riod with the 12th month of "this year" occurr	w rate for each of the last three	e years. Each year's data m	lust be based		
	a.	Design flow rate 0.005 mgd					
			Two Years Ago	Last Year	This Year		
	b.	Annual average daily flow rate	0.00091	0.00094		0.00093	mgd
	C.	Maximum daily flow rate	0.00277	0.00185		0.00231	mgd
A.7.		Ilection System. Indicate the type(s) of contribution (by miles) of each. Separate sanitary sewer Combined storm and sanitary sewer	nection system(s) used by the	treatment plant. Check all t	пат арріу. Ais	100	%
4.8.	Dis	charges and Other Disposal Methods.					
	a.	Does the treatment works discharge efflue	nt to waters of the U.S.?	✓	Yes		No
		If yes, list how many of each of the following		e treatment works uses:			
		i. Discharges of treated effluent	3 7/2 3 - /2		1		
		ii. Discharges of untreated or partially tre	ated effluent		0		
		iii. Combined sewer overflow points			0		
		iv. Constructed emergency overflows (price	or to the headworks)		0		
		v. Other			N/	A	
	b.	Does the treatment works discharge efflue impoundments that do not have outlets for			Yes	_	No
		If yes, provide the following <u>for each surfact</u> Location:					
		Annual average daily volume discharged to	surface impoundment(s)			mgd	
		Is discharge continuous or	intermittent?				
	•	Deep the treatment works land apply treate	ad wastawatar?		Yes	1	No
	C.	Does the treatment works land-apply treater If yes, provide the following for each land a					NO
			pplication site.				
		Number of acres:					
		Annual average daily volume applied to site	e:	Mgd			
			ous or intermitte				
		-	<u> </u>				
		Does the treatment works discharge or tran					

FACILITY NAME AND PERMIT NUMBER:

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vionics	s Specialties, Inc VA0028398		OMB Numbe	er 2040-008	
	If yes, describe the mean(s) by which the was works (e.g., tank truck, pipe).	tewater from the treatment	works is discharged or transp	orted to the other tre	atment
	If transport is by a party other than the applica	int, provide:			
	Transporter name:				
	Mailing Address:				
	Contact person:				
	Title				
	Mailine Address.				
	Mailing Address:				
	Contact person:				
	Title:				
	If known, provide the NPDES permit number of		_		
	Provide the average daily flow rate from the tre	eatment works into the reco	eiving facility.		mgd
e.	Does the treatment works discharge or dispose A.8.a through A.8.d above (e.g., underground	e of its wastewater in a ma percolation, well injection)	nner not included in	Yes _ ✓	_ No
	If yes, provide the following for each disposal r	method:			
	Description of method (including location and s	size of site(s) if applicable)			

____ continuous or ____ intermittent?

Annual daily volume disposed of by this method:

Is disposal through this method

FACI	LľT	Y NAME AND PERM	IT NUMBER:		Form Approved 1/14/99 OMB Number 2040-0086			
Avion	ics	Specialties, Inc \	VA0028398		OIVIB Number 2040-0066			
v	/AS	TEWATER DISCHA	RGES:					
If	yo	u answered "yes" to	question A.8.a, complete questions	s A.9 through A.12 once	for each outfall (including bypass points) through			
W	hic	h effluent is discharge	ed. Do not include information on co- ional Application Information for Appl	mbined sewer overflows	in this section. If you answered "no" to question			
	.0.0	a, go to rait b, radio	ional Application mornation for Appl	ilidania with a Designi Tot	oreater than or Equal to 0.1 mgu.			
A.9.	De	scription of Outfall.						
	a.	Outfall number	001	_				
	b.	Location	Earlysville		22936			
		(City or town, if applicable) Albemarle		(Zip Code) Virginia				
			(County) 38 deg. 8 min. 8 sec.		(State) 78 deg. 27 min. 35 sec.			
			(Latitude)		(Longitude)			
	C.	Distance from shore	(if applicable)	N/A	ft.			
	d.	Depth below surface	(if applicable)	N/A				
		Solvey, or Macros (Solvey) (Solvey) (Solvey) (Solvey)	-					
	e.	Average daily flow ra	ate -	0.0009	mgd			
	f.	Does this outfall hav periodic discharge?	ve either an intermittent or a	✓ Yes	No (go to A.9.g.)			
		If yes, provide the fo	llowing information:					
		Number of times per	year discharge occurs:	est 230-2	250 days/year			
		Average duration of each discharge:		30 minues	; 0-2 time/day			
		Average flow per dis	charge:		0.0009 mgd			
		Months in which disc	charge occurs:		Jan - Dec			
	g.	Is outfall equipped w	vith a diffuser?	Yes	✓ No			
۹.10.	De	scription of Receiving	ng Waters.					
	a.	Name of receiving w	uter U.T. of Naked Cree	k				
	b.	Name of watershed (if known) VAV-H26R						
		United States Soil Conservation Service 14-digit watershed code (if known):						
	C.	Name of State Mana	agement/River Basin (if known):					
		United States Geolo	gical Survey 8-digit hydrologic catalo	oging unit code (if known)				
	d.	Critical low flow of reacute	eceiving stream (if applicable):	chronic	cfs			
	e.		ceiving stream at critical low flow (if a					

					_					
FACILITÝ NAME AND I							rm Approved 1/14/99 MB Number 2040-0086			
A.11. Description of Tr										
a. What levels of		are provided?	Chack all th	act apply						
/	rimary	are provided?	/	econdary						
	dvanced		-	ther. Describe:						
b. Indicate the fo	llowing rem	oval rates (as	applicable)							
			,		90		%	%		
Design BOD _s removal <u>or</u> Design Design SS removal			5		90					
								%		
Design P remo					N/A		%			
Design N remo	oval				N/A	\	%			
Other		_			_		%			
c. What type of c	lisinfection i	s used for the	effluent fro	m this outfall? If dis	sinfection varie	s by season, p	lease describe.			
-		_								
If disinfection i	s by chlorin	ation, is dechl	orination us	ed for this outfall?		Ye	9S	No		
d. Does the treat	ment plant l	have post aera	ition?			✓ Ye	es	No		
collected through of 40 CFR Part 13	analysis of and other	onducted us r appropriate	ng 40 CFF QA/QC re	Part 136 method quirements for sta	s. In addition andard metho	, this data mu ds for analyte	st comply with s not addresse	must be based on data QA/QC requirements d by 40 CFR Part 136. d one-half years apart.		
PARAMET	TER TER		MAXIMUM DAILY VALUE			AVE	RAGE DAILY VA	AILY VALUE		
7 7 77 77 117 1 mar 7			Value	Units	Value		Units	Number of Samples		
			7 0100	-		//////////////////////////////////////				
pH (Minimum)		6.2 8.3		S.U.						
pH (Maximum)		0.002)3	s.u. MGD	0.00093	MG	D 2	49		
TOW INDICE			.0	C _o	8.7	C°		109		
Temperature (Winter) 19.6 Temperature (Summer) 23.2			C°	17.1			123			
* For pH please re	port a minin		The second secon	value						
POLLUTANT		MAXIMUM DAILY DISCHARGE		AVEDAG	AVERAGE DAILY DIS		ANALYTICAL	BAL (BAD)		
			HARGE	AVERAG	SE DAILY DIS		METHOD	ML/MDL		
			HARGE Units		Units	Number of Samples	METHOD	ML/MDL		
ONVENTIONAL AND N		Conc.	Units	Conc.	1	1.5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-	METHOD	ML/MDL		
CONVENTIONAL AND N		Conc.	Units	Conc.	1	1.5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-	SW5210	2 mg/L		

END OF PART A. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

mg/L

12

SW2540

1 mg/L

0.61

1.48

mg/L

FECAL COLIFORM

TOTAL SUSPENDED SOLIDS (TSS)

FACILITY N.	A N/I E	ANID	DEDMIT	AHIMDED.

Avionics Specialties, Inc. - VA0028398

N/A

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, ,,,,,								
ВА	SI	C APPLICATION INFORMATION						
PAF	RT E	. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).						
All a	All applicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).							
B.1.	low and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.							
	Bri	efly explain any steps underway or planned to minimize inflow and infiltration.						
B.2. Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility process of the map must show the outline of the facility and the following information. (You may submit more than one map if one return area.)								
	a.	The area surrounding the treatment plant, including all unit processes.						
	b.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.						
	C.	Each well where wastewater from the treatment plant is injected underground.						
	d.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.						
	e.	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.						
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.						
B.3.	back	cess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all suppower sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., rination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily rates between treatment units. Include a brief narrative description of the diagram.						
B.4.	Оре	ration/Maintenance Performed by Contractor(s).						
	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibil contractor?YesNo							
		s, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional es if necessary).						
Name:								
	Mail	ing Address:						
	Tele	phone Number:						
	Res	ponsibilities of Contractor:						
	unce	eduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or impleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the ment works has several different implementation schedules or is planning several improvements, submit separate responses to question for each. (If none, go to question B.6.)						
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.						
 b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies. YesNo 								

FACILITY NAME AND PAVIONICS Specialties, In			N/A	A		Form Approved 1/14/99 OMB Number 2040-0086			
c If the answer to	B.5.b is "Yes," brie	fly describe, incl	uding new max	imum daily inflow	v rate (if applicab	le).			
applicable. Fo	Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.								
		Schedule		Actual Completio	on				
Implementation	n Stage	MM / DD /	YYYY	MM / DD / YYYY					
- Begin constr	uction	//							
- End construc	tion	//							
– Begin discha	rge	//							
 Attain operat 	ional level								
e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained?Yes Describe briefly:							_No		
standard methods	for analytes not addr I must be no more th	essed by 40 CF	R Part 136. At	of 40 CFR Part i a minimum, efflu	136 and other ap ent testing data	propriate QA/QC req must be based on at l	uirements for least three		
POLLUTANT		M DAILY IARGE			AGE DAILY DISCHARGE				
	Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML / MDL		
CONVENTIONAL AND N	ONCONVENTIONA	L COMPOUNDS	S.						
AMMONIA (as N)									
CHLORINE (TOTAL RESIDUAL, TRC)									
DISSOLVED OXYGEN									
TOTAL KJELDAHL NITROGEN (TKN)									
NITRATE PLUS NITRITE NITROGEN									
OIL and GREASE									
PHOSPHORUS (Total)									
TOTAL DISSOLVED SOLIDS (TDS)			-						
OTHER							_		
		1	END OF P	APT P					

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 & 7550-22.

FACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99					
Avionics Specialties, Inc VA0028398	OMB Number 2040-0086					
BASIC APPLICATION INFORMATION						
PART C. CERTIFICATION						
All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.						
Indicate which parts of Form 2A you have comple	eted and are submitting:					
Basic Application Information packet	Supplemental Application In	nformation packet:				
	Part D (Expanded Effluent Testing Data)					
	Part E (Toxicity Testing: Biomonitoring Data)					
	Part F (Industrial User Discharges and RCRA/CERCLA Wastes)					
	Part G (Combined	Sewer Systems)				
ALL APPLICANTS MUST COMPLETE THE FOLLO	OWING CERTIFICATION.					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.						
Name and official title Thomas Cason - Executive Vice President and Chief Operating Officer						
Signature						
Telephone number (727) 461-3 000						
Date signed						
Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.						

SEND COMPLETED FORMS TO: